PUBLIC HEALTH REPORTS

VOL. 52

FEBRUARY 12, 1937

NO. 7

PREVALENCE OF INFLUENZA IN THE UNITED STATES

In all sections of the country the number of cases of influenza reported in January has exceeded the seasonal expectancy. In the Middle Atlantic and East South Central areas the number of cases reported declined during the last 2 weeks of the month; that is, since January 17. The New England, East North Central, West North Central, and South Atlantic sections showed a decrease in the number of reported cases for the fourth week, January 24 to January 30. The West South Central, Mountain, and Pacific sections, however, have reported an increasing number of cases throughout January. The largest increase in cases, since January 17, was reported in the Pacific section.

Mortality from all causes in 86 large cities (table 1) likewise has shown an excess in all sections during January. In the East Central and Atlantic Coast States there has been only a slight excess in mortality from all causes, the peak of which was reached by the week ended January 9. Mortality is still high, however, in the New England and South Atlantic States. Death rates for the West North Central section show a decided excess over seasonal expectancy, particularly for the weeks ended January 16 and January 23. The West South Central section has had high rates of mortality throughout January, with no definite peak week. In the Mountain section the death rate from all causes was 29.1 per 1,000 for the week ended January 9, but declined to 22.7 for the week ended January 30. In the Pacific section the death rate has increased throughout January to 21.6 per 1,000 for the week ended January 30.

The small outbreak of influenza which started in the West South Central section in December and spread eastward across the Northern States and westward to the Pacific coast has been mild in the East and somewhat more severe in the West North Central, Mountain, and Pacific sections. Both reported cases and mortality from all causes indicate that during the latter part of January the epidemic declined in all sections of the country except the Pacific coast area.

The latest preliminary reports show 32,078 cases for the week ended February 6, as compared with 36,742 cases for the week ended January 30 and 35,953 for the week of January 23. The largest

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(189)

increases for the week ended February 6 are shown for the following named widely separated States: Maine, West Virginia, and Texas. Most of the other States recorded decreases, with a few showing only slight increases. These figures are exclusive of Kentucky, and of Kentucky and Louisiana for the week of January 6.

TABLE 1.—Mortality from all causes in 86 large cities of 9 geographic areas of the United States, Dec. 13, 1936, to Jan. 30, 1937

,	All	cities	11	TE V	E AS		900	10.33	100	1.75	17
Week ended—	Cur- rent week	Corresponding week of 1933-34	New Eng- land (14 cities)	Middle Atlan- tic (16 cities)	East North Central (18 cities)	West North Central (8 cities)	South Atlan- tic (7 cities)	East South Central (5 cities)	West South Central (7 cities)	Mountain (2 cities)	Pacific (9 cities)
		111	DEA	TH RA	TE PE	R 1,000 F	ERSON	NB			- 110
Dec. 19	12.9 11.9 14.4 15.8 15.4 14.8 14.9	11.9 12.1 12.2 13.0 12.8 12.3 12.2	14. 4 13. 5 15. 2 15. 8 15. 6 15. 4 15. 4	12.2 10.9 13.5 15.3 15.1 14.4 14.0	11.9 11.7 14.2 14.7 13.2 11.5 11.9	. 12.7 12.4 14.1 17.7 19.0 18.7 16.7	16.4 14.2 18.6 18.7 18.7 16.5 17.5	14.0 11.9 18.3 17.2 15.4 15.0 14.3	14.0 12.2 15.3 14.4 15.2 15.1 16.4	15. 5 13. 0 19. 1 29. 1 28. 4 27. 5 22. 7	13. 12. 13. 16. 16. 19. 0

³ Cities of over 100,000 population in 1930.

INFLUENZA IN EUROPE

The following reports, though fragmentary, give some information regarding the prevalence of influenza in Europe. They are taken from the Weekly Epidemiological Record for January 21, 1937, issued by the Health Section of the League of Nations.

England and Wales.—For the 3 weeks ended January 9, 464 deaths from influenza were reported in London. The duration of the illness has been from 4 to 10 days, with fever and respiratory and gastrointestinal symptoms, the latter being of severe type in some instances.

Austria.—No abnormal prevalence was reported up to January 13. Germany.—During the week ended January 2, the number of deaths from influenza recorded in 57 towns of more than 100,000 population decreased from 512 to 433, but the number of deaths from pneumonia increased from 581 to 637 and the general mortality rate from 14.2 to 14.7 per 1,000 population.

Denmark.—On January 11 the mild epidemic was reported to be diminishing rapidly. During December, 102,788 cases were reported, with a morbidity rate of 38.6 per 100,000 in Copenhagen, 36.0 in other towns, and 20.6 in the rural districts. For the week ended January 2, 1937, the number of cases in Copenhagen decreased from 3,618 (for the preceding week) to 2,674, while the number of deaths from influenza increased to 27 (as compared with 25 for the preceding

week), and the general mortality rate decreased from 18.9 to 15.6 per 1,000.

Scotland.—For the week ended January 9 the number of primary and acute pneumonia cases increased from 249 to 404, and that of acute influenzal pneumonia from 68 to 211. During the week ended January 16 the number of deaths from influenza in 16 towns increased from 185 to 220, in Glasgow from 33 to 131, and in Edinburgh from 12 to 36. The number of deaths from all respiratory disease increased in the 16 towns from 186 to 233, and the general death rate from 20.2 to 23.8.

Finland.—In the second half of December 1,336 cases of influenza were recorded, of which number 217 occurred at Helsingfors.

Hungary.—From January 10 to 16, 32 cases of influenza with complications were reported in Hungary, 6 of which were in Budapest.

Irish Free State.—January 3-9, deaths from influenza in 13 towns, 10; deaths from pneumonia, 23. The general mortality rate for the 13 towns was 15.5 per 1,000; for Dublin, 15.2.

Northern Ireland.—During the week ended January 16, the number of influenza deaths in Belfast rose from 17 to 46, the number of deaths from pneumonia from 20 to 35, and the number of deaths due to other respiratory diseases from 28 to 40. The death rate for the week was 34.8 per 1,000 as compared with 22.1 for the preceding week.

Norway.—For the weeks ended December 26, 1936, January 2, and January 9, 1937, the numbers of cases of influenza reported at Oslo were 134, 126, and 271, and the general mortality rate was 8.3, 15.6, and 15.4 per 1,000, respectively.

Netherlands.—For the week ended January 9, as compared with the preceding week, the number of deaths from influenza increased from 41 to 58, and the general death rate from 16.8 to 19.1 per 1,000.

Poland.—Notification of influenza is not compulsory in Poland, but the disease is reported to have prevailed in mild epidemic form in December 1936, and according to information dated January 20, 1937, a severe type was prevailing in Warsaw, with pulmonary complications being frequent and occasionally fatal.

Sweden.—Between December 20, 1936, and January 9, 1937, the weekly numbers of cases reported in Stockholm were 7, 16, and 35, and the general mortality rate was 8.7, 11.3, and 15.9 per 1,000.

Switzerland.—Only sporadic cases of influenza had been reported, but notification of influenza is not generally compulsory except in case of obvious epidemic.

STUDIES IN CHEMOTHERAPY

III. THE EFFECT OF p-AMINOBENZENE SULPHONAMIDE ON PNEUMOCOCCI IN VITRO

By Sanford M. Rosenthal, Senior Pharmacologist, National Institute of Health, United States Public Health Service

It has previously been shown that p-aminobenzene sulphonamide possesses curative action in experimental pneumococcus infections in mice (1). This compound, along with Prontosil and Prontosil soluble, has been found effective experimentally and clinically against infections with hemolytic streptococci. A recent review of the literature is given by Domagk (2), to whom the original discovery of Prontosil is due. In our experiments the action of sulphonamide on pneumococci in vivo was not to any appreciable extent shared by Prontosil or Prontosil soluble.

A study of the action of sulphonamide² on organisms in vitro has shown that this compound possesses marked bactericidal and bacteriostatic power against pneumococci,³ while no such effects were present on hemolytic streptococci, Staphylococcus albus, and E. coli.

METHOD

Dilutions of sulphonamide base were made in plain broth of pH 7.3. The drug is soluble to 0.8 percent, and glass electrode determinations showed that the pH was unchanged after 24 hours' incubation. The tubes were inoculated with 2 drops of an 18-hour broth culture of the organisms. After 24 hours' incubation, transfers of 2 drops were made into broth tubes containing similar concentrations of sulphonamide; transfers were also made into broth without the drug, to test for viable organisms. This was continued for 5 or 6 days, and all cultures were observed 1 week for the presence of growth.

In the case of streptococci, 2 percent (neopeptone) broth was employed, in which medium these organisms grew abundantly.

RESULTS

Six highly virulent strains of pneumococci were employed—Mulford, types I, II, and III; Lederle, type I, an Institute strain (NIH), type I, and a type III strain recently isolated from pneumonia in man and sent us by Dr. J. C. Bullowa. Inhibition of growth and death of the organisms in 24 to 48 hours occurred in all strains with the presence of the drug in dilutions of 1 to 1,000 and 1 to 10,000.

¹ Prontosil is 4-sulphonamide 2-4-diaminobenzol; Prontosil soluble is 4-sulphonamide-phenyl-2-azo-7-acetylamino-1-hydroxynaphthalene 3, 6 sodium disulphonate.

³ In this paper sulphonamide refers to p-aminobenzene sulphonamide. It is now available commercially under the name "Prontylin" (Winthrop Chemical Co.).

³ Dr. Sara E. Branham, of this Institute, has shown that a similar action is present on meningococci.

Inhibition of growth occurred in five of the six strains with dilutions of 1 to 100,000, while with 4 of them sterilization of cultures was obtained on the first to third day at this dilution. Four strains were tested at dilutions of 1 to 500,000. In one case sterilization of cultures was obtained on the second day, in one there was inhibition of growth only, while with the other two cases no visible effect was produced (table 1).

Table 1.—The bacteriostatic and bactericidal action of p-aminobenzene sulphonamide against 6 strains of pneumococci. (This action is destroyed by acetylation of the compound)

					Dilutio	n of dru	ıg			100	Sul-
Strain of pneumococci and day	1: 1,000	Subculture	1: 10,000	Subculture	1: 100,000	Subculture	1: 500,000	Subculture	1: 1,000,000	Controls	Acetylated p h o n a m 1: 1,000
Bullowa III: 1st day	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	10 10 10	10 10 10	******		******
5th day	0	0	0	0	0	0	10	10	******	+++	
Mulford II: 1st day 2d day 3d day 4th day 5th day	++	++	++	++	1 ± 0 0 0 0 0 0	0 0 0 0 0	++ 10 0 0 0	++ 0 0 0 0	******	##	*******
Mulford III: 1st day	±0000	10000	+0000	10 0 0 0	+++ 10 10 10 10 +	+++	 	##		###	#
Lederle I: 1st day	0 0 0	10 0 0 0	0 0 0	1000	##	#	##			##	#
Mulford I: 1st day 2d day 3d day 4th day 5th day			#0000	+10000	+++	+++			##	##	
NIH I: 1st day 2d day 3d day 4th day 5th day			00000	10000	#0000	10 0 0 0			#	#	

^{1 =++} after 48 to 96 hours' incubation.

In a previous report (1) on the curative effect of p-aminobenzene sulphonamide on pneumococcus infections in mice it was shown that acetylation of this compound destroyed its chemotherapeutic action. Likewise in the test tube the acetyl compound in dilutions of 1 to 1,000 did not influence the growth of two strains of pneumococci upon which tests were made (table 1). Also inactive in the body (1) and in the

test tube was Prontosil soluble, a diazotized sulphonamide. Pneumococcus strains Mulford I and II showed no inhibition of growth after 5 daily transfers in broth containing 1 to 500 dilution of Prontosil soluble.

EFFECT UPON OTHER ORGANISMS

Sulphonamide in dilutions of 1 to 1,000 had no bactericidal or bacteriostatic effect upon four strains of virulent hemolytic streptococci grown in 2 percent neopeptone broth 4 (table 2). The only effect observed was that after 3 or 4 days' growth (with daily transfer) in the presence of the drug the organisms grew in long chains and flocculated at the bottom of the test tube. After 5 days in the presence of the drug, tests upon mice showed no appreciable loss of virulence. Blood agar plate cultures were examined by Dr. Alice C. Evans, who found no difference from the controls in the appearance of the colonies. Also, when transferred after the fifth day to broth without the drug, the organisms grew without flocculation.

Table 2.—The lack of inhibition of growth of p-aminobenzene sulphonamide on 4 strains of hemolytic streptococci

Streptococcus and dilution	First day	Second day	Third day	Fourth day	Fifth day
Control Strep. 1779 1:1000 sulphonamide.	##	###	###	1###	.###
Strep. 823 Control	##	###	1##	.###	.###
Control	##	###	,###	.###	, ###
Control	###	##	##+	,+++	.+++

¹ Organisms flocculated at bottom of tube.

Cultures of Staphylococcus albus and E. coli were grown in plain broth in the presence of sulphonamide (1 to 1,000) with daily transfers for 1 week; no difference from the control cultures was observed (table 3).

Bubculture +++.

⁴ Since this was written, papers have appeared by Long and Bliss (J. Am. Med. Assoc., 108:32 (1937)) and by Colebrook, Buttle, and O'Meara (Lancet, 2: 1323 (1936)) showing that inhibitory effects on the growth of streptococci can be demonstrated for sulphonamide if a small number of streptococci are inoculated into the culture medium. No effect was obtained with an inoculum similar to ours.

Table 3.—The absence of effect of p-aminobenzene sulphonamide upon growth of Staphylococcus albus and E. coli

Organism and dilution	First day	Second day	Third day	Fourth day	Fifth day
Control	##	##	##	##	##
Control	##	##	##	##	##

DISCUSSION

The bacteriostatic and bactericidal action of sulphonamide on pneumococci in vitro is adequate to explain its chemotherapeutic effect in animals. The nature of this action in vitro is unusual in that the drug is not an antiseptic in the usual sense. The specificity of its action upon certain organisms, as well as its low toxicity for animals, differentiates it from the class of antiseptics that are general protoplasmic poisons.

These results are interesting from the point of view of action upon streptococci. Thus the drug is more effective against streptococci than pneumococci in animals but not inhibitory to growth of streptococci in the test tube.5 Levaditi and Vaisman (3) have shown a neutralizing effect from Prontosil upon the leucocidins and hemolysins of streptococci in vitro, but the mode of action has been inadequately explained (2). Domagk suggests among other possibilities that these compounds may be converted into active agents in the body, and the demonstration that sulphonamide itself can be active in vitro against some organisms lends support to such a belief. The fact that in our experiments diazotization and acetylation of the sulphonamide compound destroy its activity both in the body and in the test tube is evidence that the mode of action is the same in both cases. Fourneau, Trefouel, Nitti, and Bovet (4) have shown a retardation of growth of molds by certain sulphonamide compounds, and this action was found to be related to the antistreptococcic activity of these compounds in animals.

CONCLUSIONS

p-aminobenzene sulphonamide has been found to be bactericidal and bacteriostatic to pneumococci in high dilutions in vitro.

The lack of effect upon the growth of streptococci, Staphylococcus albus, and E. coli, previously shown by other workers for Prontosil, was likewise established for p-aminobenzene sulphonamide.

³ The dose required in animals is 1 gm per kilo or greater so that concentrations can be reached in the body within the range effective in the test tube.

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 Fourneau, E., Trefouel, J., Nitti, F., and Bovet, D.: Compt. Rend. Soc. Biol., 122: 652 (1936).

DEATH RATES AND BIRTH RATES, BY STATES, 1934 AND 1935 AND SUMMARY FOR THE REGISTRATION AREAS, 1920–35

According to figures compiled by the Bureau of the Census, Department of Commerce, there were 1,392,752 deaths in the United States in 1935, as compared with 1,396,903 in 1934, giving death rates of 10.9 and 11.0 per 1,000 estimated population for these years, respectively. The accompanying tables and statements were recently issued by the Bureau of the Census.

It is stated that the high death rates shown for Arizona, New Mexico, and Nevada are due in large measure to an excess in the number of nonresident deaths from tuberculosis, while those in the New England area are due largely to the relatively greater advanced age of the population. The variations in the birth rates for the different States or geographical areas are due to a combination of biological and social factors, such as race, age of population, and fertility.

The second table presents a summary of the data for births and deaths for the birth and death registration areas for each year since and including 1920. Prior to 1933 the registration areas did not include the same States. Beginning with 1933, however, both areas have included all of the States.

Both birth and death rates have declined in the last 15 years, but the infant mortality rate has also been lowered, and to a greater degree, decreasing almost one-third during this period.

Summary of natality and mortality data for each State, 1935 and 1934

	Estimate tion 3	d popula-	Total	births	Total	deaths		ate p imat lat		
Area		1	2 11/4				Bi	rths	De	aths
	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934
United States	127, 521, 000	126, 626, 000	2, 155, 105	2, 167, 636	1, 392, 752	1, 396, 903	16. 9	17.1	10. 9	11.0
Alabama Arizona Arkansas California Colorado Connecticut Delaware District of Columbia	2, 834, 000 406, 000 1, 999, 000 5, 997, 000 1, 717, 000 256, 000 594, 000 1, 614, 000	406, 000 1, 976, 000 5, 937, 000 1, 058, 000 1, 700, 000	9, 139 35, 684 80, 131 18, 837 22, 258 4, 036 10, 803	8, 492 37, 515 78, 346 17, 849 22, 215	6, 077	5, 647 16, 888 68, 095 12, 497 17, 438 3, 354 8, 274	22. 5 17. 9 13. 4 17. 7 13. 0 15. 8 18. 2	20. 9 19. 0 13. 2 16. 9 13. 1 16. 8 18. 1	15.0 8.1 12.1 12.4 10.3 12.5 14.3	13. 8 8. 8 11. 8 11. 8 10. 3 13. 3 14. 8

Summary of natality and mortality data for each State, 1935 and 1934-Continued

	Estimated tion J	i popula-	Total l	pirths	Total d	leaths		mat	er 1,6 ed po	
Area	5,04	.,					Bir	ths	De	aths
	1935	1934	1935	1934	1935	1934	1935	1934	1935	1934
Georgia	3, 035, 000	3, 011, 000	63, 260	64, 661	34, 288	35, 580	20.8	21. 5	11.3	11.8
Idaho	479, 000	473, 000	9, 469	9, 373	4, 531	4, 377				
Illinois	7, 817, 000	7, 790, 000	111, 884	110, 226	85, 518	87, 205	14.3	14. 1	10. 9	11. 2
Indiana	3, 429, 000	3, 400, 000	52, 909	52, 349	39, 515	40, 650				
Iowa	2, 534, 000	2, 525, 000	41, 137	42, 463	26, 364	26, 758				
Kansas	1, 878, 000	1, 870, 000	30, 589	32, 463	20, 334	19, 951				
Kentucky	2, 846, 000	2, 810, 000	57, 715	59, 904	29, 370	30, 148				
Louisiana	2, 120, 000	2, 118, 000	42, 270	43, 003	23, 711	23, 254 10, 937				
Maine	845, 000	837, 000	15, 723 27, 236	15, 760 27, 340	11, 024 21, 182	20, 946				
Maryland	1,669,000	1, 664, 000 4, 326, 000	63, 001	63, 828	50, 237	50, 580	14 4	14 8	11 6	11 7
Massachusetts Michigan	4, 375, 000	4, 680, 000	87, 446	83, 925	51, 050	50, 442	18 5	17 0	10.8	10.5
Minnesota	2, 627, 000	2, 619, 000	45, 962	45, 921	26, 247	26, 570				
Mississippi	2,008,000	2, 008, 000	48, 320	47, 863	21, 339	21, 832	24.1	23.8	10.6	10.5
Missouri	3, 913, 000	3, 868, 000	57, 299	59, 185	43, 201	46, 639				
Montana.	531, 000	531, 000	10, 029	9, 949	6, 291	5, 617				
Nebraska	1, 364, 000	1, 364, 000	23, 327	25, 085	13, 181	13, 372	17.1	18.4	9.7	9.8
Nevada	99,000	98, 000	1, 423	1, 434	1, 324	1, 297				
New Hampshire	502, 000	496, 000	7, 768	7, 869	6, 532	6, 397				
New Jersey	4, 288, 000	4, 249, 000	54, 514	54, 541	43, 284	43, 819				
New Mexico	422, 000	422, 000	13, 190	12, 769	6, 272	6, 115	31.3	30.3	14.9	14.
New York	12, 890, 000	12, 846, 000	184, 344	185, 615	148, 462	149, 088				
North Carolina	3, 417, 000	3, 378, 000	78, 753	79, 704	33, 485	35, 180				
North Dakota	700, 000	697, 000	13, 655	14, 549	5, 860	5, 844				
Ohio	6, 707, 000	6, 701, 000	101, 103	100, 100	77, 356	77, 101 21, 373	10. 1	14. 9	11.0	11.
Oklahoma	2, 509, 000	2, 491, 000	43, 691	47, 302	21, 091 11, 430	10, 540				
Oregon	1, 008, 000	999, 000	13, 179	13, 077 160, 238	108, 555	109, 601	10. 1	10. 1	10.0	11 /
Pennsylvania Rhode Island	10, 067, 000 681, 000	10, 000, 000 681, 000	10, 215	10, 349	7, 838	7, 703				
South Carolina	1, 840, 000	1, 821, 000	40, 598	44, 265	20, 353	21, 312				
South Dakota	692, 000	692, 000	12, 850	13, 173	6, 316	6, 455				
Tennessee	2, 824, 000	2, 785, 000	53, 314	52, 393	30, 002	30, 312	18. 9	18.8	10.6	10. 9
Texas	6, 077, 000	6, 038, 000	114, 721	116, 603	61, 663	59, 731	18. 9	19. 3	10. 1	9.9
Utah	515, 000	514, 000	12, 695	12, 636	5, 066	4, 841				
Vermont	377, 000	374, 000	6, 591	6, 593	4, 777	4, 878	17.5	17.6	12.7	13.0
Virginia	2, 637, 000	2, 604, 000	51, 487	52, 375	30, 358	30, 559				
Washington	1, 633, 000	1, 623, 000	22, 396	22, 540	18, 203	17, 552	13.7	13.9	11.1	10. 8
West Virginia	1, 816, 000	1, 802, 000	41, 774	41, 476	18, 340	17, 941				
Wisconsin	2, 908, 000	2, 908, 000	52, 562	51, 419	30, 694	30, 399				
Wyoming	232, 000	231, 000	4, 362	4, 565	2, 284	2,096	18.8	19.8	9.8	9. 1

Summary of natality and mortality data for the registration areas, 1920-1935

			Bir	th registrati	on area	*	
Year	Estimated population of	Popul	ation	Birt	ths		
	United States	Number	Percent of total in United States	Number	Per 1,000 popula- tion	Infant mortal- ity	Births per 100 deaths
1935 1934 1933 1932 1931 1930 1929 1929 1928 1977 1925 1925 1944 1925 1925 1925 1927 1929 1929 1929 1929 1929 1929 1929	127, 521, 000 126, 626, 000 125, 770, 000 124, 974, 000 124, 113, 000 123, 091, 000 121, 526, 429 119, 861, 607 118, 196, 785 116, 531, 963 114, 807, 141 113, 202, 319 111, 537, 497 109, 872, 675 108, 207, 953 106, 543, 631	127, 521, 000 126, 626, 000 125, 770, 000 119, 027, 000 116, 556, 000 115, 556, 000 115, 569, 97, 972 113, 060, 663 103, 575, 656 89, 652, 678 89, 652, 678 86, 256, 028 87, 486, 096 86, 256, 028 89, 115, 841 70, 788, 177	100.0 100.0 100.0 95.2 94.7 94.7 94.7 94.3 87.6 76.2 76.2 72.3 65.4	2, 185, 105 2, 167, 636 2, 061, 232 2, 074, 042 2, 112, 760 2, 203, 958 2, 169, 958 2, 169, 958 1, 856, 068 1, 856, 068 1, 878, 880 1, 930, 614 1, 792, 646 1, 774, 911 1, 714, 261 1, 556, 874	16. 9 17. 1 16. 6 17. 4 18. 0 18. 9 19. 8 20. 6 20. 7 21. 5 22. 4 22. 2 23. 3	55. 7 60. 1 58. 1 57. 6 61. 6 64. 6 67. 6 68. 7 64. 6 73. 3 71. 7 70. 8 77. 1 76. 2 75. 6 85. 8	18 15 16 16 16 16 18 18 17 17 18 19 18 18 18 18 18 18 18 18 18

Summary of natality and mortality data for the registration areas, 1920-1935-Con.

		Death registr	ration area	
Year	Popul	ation	Des	ths
	Number	Percent of total in United States	Number	Per 1,000 pepula- tion
1935. 1934. 1933. 1932. 1931. 1930. 1929. 1928. 1927. 1925. 1934. 1925. 1944. 1921. 1922. 1923.	127, 521, 000 126, 626, 000 125, 770, 000 120, 291, 060 119, 479, 000 118, 472, 000 116, 317, 515 114, 258, 516 108, 177, 568 104, 938, 301 102, 951, 999 100, 032, 652 97, 816, 104 93, 866, 240 89, 102, 434 87, 632, 592	100. 0 100. 0 100. 0 96. 3 96. 2 95. 7 95. 3 91. 5 90. 1 89. 6 88. 4 87. 7 85. 4 82. 3	1, 392, 752 1, 396, 903 1, 342, 106 1, 308, 529 1, 322, 587 1, 343, 356 1, 386, 363 1, 378, 675 1, 236, 949 1, 285, 927 1, 219, 019 1, 173, 901 1, 193, 901 1, 101, 863 1, 032, 903 1, 142, 558	10.9 11.0 10.7 10.9 11.1 11.3 11.9 12.1 11.4 12.3 11.8 11.7 12.2 11.7

DEATHS DURING WEEK ENDED JANUARY 23, 1937

(From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan. 23, 1937	Correspond- ing week, 1936
Data from 85 large cities of the United States: Total deaths. Average for 3 prior years. Total deaths, first 3 weeks of year. Deaths under 1 year of age. Average for 3 prior years. Deaths under 1 year of age, first 3 weeks of year. Data from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, 3 weeks of year, annual rate.	10, 578 9, 137 32, 918 626 591 1, 977 66, 544, 696 16, 346 12, 8 11, 9	11, 036 28, 290 635 1, 679 65, 483, 652 14, 583 11. 6 11. 2

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended January 30, 1937, and February 1, 1936

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Jan. 30, 1987, and Feb. 1, 1986

s 30, 337	Week ended Feb. 1, 1936 4 111 2 3 3 39 8 51 31 29 70 10 2	Week ended Jan. 30, 1937 374 1 99 984 1 208 163 731 322 226 83 1, 227	Week ended Feb. 1, 1935	Week ended Jan. 30, 1937 50 12 863 124 347 296 440 84 655 13 223	Week ended Peb. 1, 1938 34 204 513 100 71 1, 166 543 150 17 35 559	Week ended Jan. 30, 1937	1936 6 6 3 1 3 20 4 2 2 15 1 1 1 1 1 1 1 1
5 1 40 10 48 21 21 32 19 2	39 8 51 31 29 70 10 2	9 984 1 208 163 731 322 226 83	3 1 17 10 122 28 23 23	963 124 347 296 440 84 65 13 23	34 204 513 100 71 1, 166 55 643 150 17 35	0 0 4 1 0 7 5 10	200 4 2 15 1 1
5 1 40 10 48 21 21 32 19 2	39 8 51 31 29 70 10 2	9 984 1 208 163 731 322 226 83	3 1 17 10 122 28 23 23	963 124 347 296 440 84 65 13 23	34 204 513 100 71 1, 166 55 643 150 17 35	0 0 4 1 0 7 5 10	2X 4 2 2 18 1 13 1 13 1 13 1 13 1 1 1 1 1 1 1 1
1 40 10 48 21 21 32 19 2	39 8 51 31 29 70 10 2	984 1 208 163 731 322 226 83	1 17 10 122 28 23 2	124 347 296 440 84 65 13 23 44	513 100 71 1, 166 55 643 150 17 35	7 5 10 12 4 7	200 4 4 2 18 11
1 40 10 48 21 21 32 19 2	39 8 51 31 29 70 10 2	984 1 208 163 731 322 226 83	1 17 10 122 28 23 2	124 347 296 440 84 65 13 23 44	100 71 1, 166 55 643 150 17 35	7 5 10 12 4 7	18 1 1 13
40 10 48 21 21 32 19 2	39 8 51 31 29 70 10 2	984 1 208 163 731 322 226 83	1 17 10 122 28 23 2	347 296 440 84 65 13 23 44	71 1, 166 55 643 150 17 35	7 5 10 12 4 7	18 1 1 13
40 10 48 21 21 32 19 2	39 8 51 31 29 70 10 2	1 208 163 731 322 226 83	1 17 10 122 28 23 2	296 440 84 65 13 23 44	1, 166 55 643 150 17 35	7 5 10 12 4 7	18
10 48 21 21 32 19 2	8 51 31 29 70 10 2	731 322 226 83	122 28 23 2	65 13 23 44	55 643 150 17 35	10 12 4 7	11
48 21 21 32 19 2 5	31 29 70 10 2	731 322 226 83	122 28 23 23	65 13 23 44	150 17 35	10 12 4 7	11
21 21 32 19 2	31 29 70 10 2	322 226 83	28 23 2	65 13 23 44	150 17 35	12 4 7	11
21 32 19 2 5	70 10 2	322 226 83	28 23 2	13 23 44	17 35	4 7	1
21 32 19 2 5	70 10 2	322 226 83	28 23 2	13 23 44	17 35	4 7	1
32 19 2 5	70 10 2	226 83	23	23 44	35	7	13
19 2	10 2	83	2	44		7	
2 5	2	83 1, 227			59	9 1	
8		1, 227	E 1				
			01	19	124	0	10-1
	3	14	1	34	151	1 1	
4	11	556	2		9	0	3
30	17	2,000	181	4	24	4	
	4	225	4		31	2 0	- 8
2	3	216 78		2 2	25		
9	11	3.640	29	6	18	1	
. 9	11	4,010	24	0	19	-	
1	2	0		97	92	0	
17	7	471	42	338	149	4	11
						9	-
		100				1 1	- 2
		234	270			3	
						1 1	3
						ī	1
		600	259			3	1
17	8	40	8	7		8	1
7.			17 1 5	7		-	
	22		62		60		33
15	14	653	124		13	5	2
						9	
	7 45 2 33 9 13 17	7 19 45 34 2 21 33 24 9 17 13 13 17 8 22 15 14	7 19 130 45 34 2 2 21 236 33 24 34 9 17 827 13 13 600 17 8 40	7 19 130 4 45 34 2 2 21 236 279 33 24 34 36 0 17 827 573 13 13 600 259 17 8 40 5	7 19 130 4 32 45 34 180 29 180 2 21 226 279 122 33 24 34 36 54 9 17 827 572 44 13 13 600 259 7 17 8 40 5 7	7 19 130 4 32 6 45 34 32 6 46 32 6 46 32 34 34 36 36 37 38 38 34 36 36 37 38 36 36 37 38 36 36 37 38 36 36 37 38 36 36 37 38 36 36 37 38 36 36 37 38 36 37 38 36 37 38 38 38 38 38 38 38	7 19 130 4 32 6 2 4 4 5 5 5 5 5 5 5 5

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Jan. 30, 1937, and Feb. 1, 1936—Continued

	Diph	theria	Infl	ienza	Me	nsles		gococcus ingitis
Division and State	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936
West South Central States: Arkansas. Louisians Oklaboms *	7 9 9 50	3 20 9 60	864 235 505 2, 435	50 10 190 299	3 4 32 324	2 37 1 70	1 0 2 0	11
Mountain States: Montaina Idaho Wyoming	2	1	3, 343 230 30	26 4	73 1 3	39 31 3	0 0	
Colorado New Mexico Arizona Utah Pacific States:	7 4 1 2	11 9 2	930 1, 154 7	3 125	26 191 154	7 7 9	1 0 1 0	
Washington Oregon California	13 30	5 3 46	415 2, 187 9, 893	29 131	69 7 50	193 540 1, 228	2 1 11	
Total	571	684	36, 742	3, 025	4, 139	6, 351	111	178
First 4 weeks of year	2, 488	2, 985	108, 110	11, 140	16, 688	21, 943	542	716
	Polion	yelitis	Scarlet	fever	Smal	lpox	Typhoi	d fever
Division and State	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936
New England States:	0	0	21	19	0	0	0	,
New Hampshire	0 0 0	0 0 1 0 0	5 10 249 74 108	9 21 228 13 56	0 0 0	0 0 0 0	0 0 0 0	000000000000000000000000000000000000000
Middle Atlantic States: New York New Jersey Pennsylvania Bast North Central States:	0 1 1	1 2 0	788 172 650	740 244 490	3 0 0	0	5 3 7	5 2 6
Ohio	2 0 2 1 0	0 1 0 0 0	438 193 551 666 348	472 229 684 310 473	8 • 2 32 0 13	2 3 6 0 5	0 0 8 3 2	4 2 2 1 1 2
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	0 0 0 0 2 2 2 0	1 1 0 0 0 0	147 191 234 29 116 70 291	374 196 163 96 72 139 269	5 24 97 20 4 2	10 3 7 16 45	0 1 1 0 0 0	1 4 3 0 0 2 2
South Atlantic States: Delaware. Maryland ² District of Columbia Virginia West Virginia North Carolina ² South Carolina ³ Georgia ³ Fiorida ⁴	0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0	0 0 0 0 0 0 1 1 1 0 0	12 57 16 30 47 47 6 16	8 82 16 40 37 32 5 24 13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 8 3 9 2 2	0 3 1 13 2 2 2 0 0

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Jan. 30, 1937, and Feb. 1, 1936—Continued

	Polion	yelitis	Scarle	t fever	Sma	llpox	Typho	id fever
Division and State	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936	Week ended Jan. 30, 1937	Week ended Feb. 1, 1936
East South Central States:						-		
Kentucky 4		1		71		0		
Tennessee	1	Ō	26	44	0	0	9	
Alabama 3	ō	i	14	14	2	0	2	
Mississippi 3	0	ō	-	17	0	0	2	
West South Central States:			-		"		-	
Arkansas	9	0	7	5	2			1
Louisiana	1	ő	5	17		2	4	
Ohlahama 4			22	36				:
Oklahoma •		0	108	115	1 01	0	1	D
Texas 3	•	0	108	115	2	1	U	
Mountain States:		-			_	-		
Montana	0	0	35	120	7	9	0	1
Idaho	0	1	39	60	2	0	0	0
Wyoming	0	0	5	131	0	0	0	0
Colorado	0	0	28	213	0	1	0	0
New Mexico	1	0	18	62	0	1	0	1
Arizona	0	0	33	30	0	0	0	0
Utah 1	0	0	23	72	5	0	0	0
Pacific States:			-		1			
Washington	0	1	80	127	10	12	1	2
Oregon.	3	ō	15	38	18	3	õ	i
California	2	Õ	306	397	4	10	8	0
Camornia			900	031		10	- 0	
Total	28	15	6, 361	7, 113	275	162	98	111
First 4 weeks of year	100	73	23, 617	29, 330	1, 144	863	487	446

New York City only.
 Week ended earlier than Saturday.
 Typhus fever, week ended Jan. 30, 1937, 25 cases, as follows: North Carolina, 1; Georgia, 9; Florida, 1; Alabama, 5; Texas, 10.
 Report for week ended Jan. 30, 1937, not received.
 Report incomplete.
 Exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week:

State .	Menin- gocoe- cus menin- gitis	Diph- theria	Influ- enza	Mala- ria	Mea- sies	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
October 1936 Puerto Rico December 1936		57	53	1, 997	196	4	.1	1	0	205
Illinois Kansas Montans North Dakota Oregon South Dakota Tennessee Texas Virginia Washington	24 4 6 1 6 17 18 2	160 44 9 5 2 119 367 121 25	71.5 40 197 26 145 38 265 2,504 1,098	16 803 5	80 32 12 1 29 4 34 348 138 88	1 	13 12 2 0 2 1 11 14 1	1, 720 1, 093 251 232 130 271 174 550 176 241	2 80 105 47 108 37 0 5 0	26 10 8 2 6 3 39 78 27 7

Summary of monthly reports from States-Continued

October 1938	December 193	6—Continued	December 1936-Continu	ed
Puerto Rico: Ca		oldemic or _	Septic sore throat:	Cases
Chickenpox	8 lethargic-Cor	tinued. Cases	Illinois	. 11
Dysentery	9 Tennessee	1	Kansas	2
Filariasis	6 Texas		Montana	43
Mumps	5 Washington.	7	Oregon	. 8
Ophthalmia neona-	German measles:		South Dakota	1
torum	3 Illinois		Tennessee	
Puerperal septicemia	5 Kansas		Virginia	18
Tetanus	0 North Dako	a 1	Tetanus:	
Tetanus, infantile	5 Tennessee	6	Illinois	6
Trachoma	 Washington. 	14	Trachoma:	
Whooping cough	O Impetigo contagi	08a:	Illinois	52
	Kansas	6	Oregon	2
December 1936	Oregon		South Dakota	
	Tennessee	1	Tennessee	10
Actinomycosis:	Washington.	4	Trichinosis:	
Kansas	1 Jaundice:		Illinois.	1
Anthrax:	Kansas	1	Tularaemia:	
Washington	1 Oregon	1	Illinois	49
Chickenpox:	Lead poisoning:		Kansas	20
Illinois	4 Illinois	1	Tennessee	7
	8 Mumps:		Texas	3
Montana 2	8 Illinois	387	Virginia	14
	3 Kansas	827	Typhus fever:	
	2 Montana	360	Tennessee	1
South Dakota 1			Texas	20
	8 Oregon	56	Undulant fever:	
	1 South Dakot	a 3	Illinois	12
	5 Tennessee		North Dakota	1
Washington	2 Texas	616	Tennessee	2
Dengue:	Virginia	81	Texas.	10
Texas	Washington.	204	Washington	1
Dysentery:	Ophthalmia meo	natorum:	Vincent's infection:	
Illinois (amoebic)	3 Illinois	2	Illinois	31
Illinois (amoebic car-	Tennessee	3	Kansas	5
	0 Virginia	2	North Dakota	3
Illinois (bacillary)	7 Paratyphoid feve	r.	Oregon	11
North Dakota (amoe-	Illinois	1	Tennessee	40
_bic)	1 Texas	7	Whooping cough:	
Tennessee (bacillary)	8 Puerperal septice	mia:	Illinois	784
Texas (bacillary)	8 South Dakot	8	Kansas	85
Virginia (amoebic)	Rabies in animal		Montana	33
Virginia (bacillary, di-	Illinois	22	North Dakota	3
	Texas	41	Oregon	144
Encephalitis, epidemic or	Washington.	18	South Dakota	1
	Scabies:		Tennessee	60
lethargic:	Kansas		Texas	201
Illinois.	Oregon		Virginia	179
Kansas	Tennessee	14	Washington	72

WEEKLY REPORTS FROM CITIES

City reports for week ended Jan. 23, 1937

This table summarizes the reports received weekly from a selected list of 140 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference.

State and city	Diph-	Influenza		Mea- sles	Pneu- monia	Scar- let	Small-	Tuber- culosis	Ty- phoid	Whoop-	Deaths
Diane and City	cases	Cases	Deaths	cases	deaths	fever	cases	deaths	fever cases	cough	causes
Maine:											100
Portland	0	3	1	1	2	4	0	0	0	11	3
New Hampshire: Concord	0		3	0	0	0	0	0	0	0	1
Manchester	ő		i	2	3	1	ő	l ő	Ö	l ő	1
Nashua	Ö			ō	1	ō	0		0	0	
Vermont:	100										
Barre											
Burlington Rutland	0		0	0	0 2	0	0	0	0	1 0	
Massachusetts:					"			100			
Boston	. 0		2	7	57	49	0	8	0	223	26
Fall River	. 0		1 0	2	5	4 7	0	1	0	4	2
Springfield	0		0	20	3		0	1 1 1	0	18	2
Springfield Worcester Rhode Island:	0		. 0	119	18	4	0	1	0	34	
Pawtucket	0	10	0	7	0	. 0	0	0	0	0	19
Providence	1	1	1	144	8	26	ő	4	ő	17	7
Connecticut:		-			"	_					
Bridgeport	0	68	2	72	2	8	0	3	0	1	3
Hartford	0	106	1 3	1	11	8	0	0	0	3	5
New Haven	0	92	3	1	1	4	0	0	0	1	54
New York:											
Buffalo	1	30	11	70	29	30	0	4	0	39	172
New York	34	432	58	53	326 12	250	0	102	2	59	1, 936
Rochester	0	10	0	0	12	2	0	2	. 1	8	71
Syracuse	1		1	16	10	30	0	1	0	42	54
New Jersey: Camden	0	18		0	8	1	0		0	7	41
Newark	0	78	3	182	18	12	0	1 7	ő	30	110
Trenton	1	13	i	1	4	3	ő	il	ŏ	2	31
Pennsylvania:		-				15					
Philadelphia	12	146	19	14	67	191	0	25	0	95	863 295 28
Pittsburgh	2	93	37	0	59	47	0	6	0	28 39	295
Reading Scranton	0			3	0	11 21	ő	0	0	0	200
octanion						-					*******
Ohio:		3.7									
Cincinnati											*****
Cleveland	0	274	11	6	33 10	73	0	9 2	0	75 13	225
Columbus Toledo	3	5	5	1 2	14	8	0	5	0	37	108
Indiana:	•		•	•	14					91	200
Anderson	0		0	1	1	4	0	0	0	0	11
Fort Wayne	1		3	0	8	3	0	0	0	0	33 135
Indianapolis	0		6 0	0	37	16 11	0	3 1	0	5 0	135
Muncie	0	41	0	0	4	11	0	1	0	0	18
South Bend	0 0 0 0		1 0	0 0 0 1	0	2 2	00000	0	0	4	18
Illinois:	•		۰		"	-					40
Alton	0	14	0	0	2	8	0	0	0	0	. 7
Chicago.	0 5 0 0	66	13	13	43	193	0	41	0 0 0	79	694
Elgin	0		0	0	3 4	0	0	0	0	10	14
Moline	0	26	1	0	3	0	0	0	0	7 12	9
Springfield Michigan:	۰	1	0	0		2	0	0	0	12	31
Detroit.	16	57	12		59	345	0	23	1	82	318
Flint			0	8	4	14	0	0	0	1	35
Grand Rapids	0	18	1	6	1	8	0	1	0	19	35
Wisconsin:							100	1			
Kenosha	0	4	0	0	3	5	0	0	0	1	12
Madison	0		0	0 0 1	3	4	0	1	0	0	122
Milwaukee	0	7 2	2	1	16 2	46	0	6	0	28	14
Superior	0000	-	il	o l	ő	4	0	ő	ő	14	7
100000000000000000000000000000000000000	-		-			-	-	-	- 1	BH S	
Minnesota:	10	-		1.1							W.
Duluth	0		1	0	2	6 24 10	0	0	0	0	147
Minneapolis			8	7	22			2		16	

City reports for week ended Jan. 23, 1937-Continued

State and alter		Diph- Influenza		Mea-	Pheu-	Scar- let	Small- pox	Tuber- culosis	Ty- phoid	Whoop- ing	Deaths
State and city	theria	Cases	Deaths	sles cases	monia deaths	fever	cases	deaths	fever	cases	causes
Iowa:										-	
Cedar Rapids	0			0	1	0 5	0		0	1	
Davenport Des Moines	0	223		0	1	18	0		0	0	K
Sioux City	1	220		ő		11	0		0	0	
Waterloo	i			ő		5	0		0	10	
Missouri:	0.00										
Kansas City	2	35	9	0	34	45	47	0	0	0	14
St. Joseph St. Louis		42	19	0	10 59	36	1	16	0	55	35
North Dakota:	7	31	10		30	90		10		-	_
	0		0	0	2	1	1	0	0	0	
Fargo	0			0		0	1		0	0	
Minot	0		0	0	0	0	4	0	0	0	
South Dakota:	0	-	100	0			0		0	0	
Aberdeen Sioux Falls	0			ő		8	0	******	ő	Ö	
Nebraska:							1				174
Omaha	0		2	0	29	11	0	3	0	5	96
Kansas:	4								0	0	
Lawrence	0	66	0	0	2 6	6	0	0	ő	0	2
Topeka Wichita	0	188	ő	1	6	. 3	ő	2	ő	ő	20
W ICHIGA.			-		"		- 1	-			
Delaware:		13									
Wilmington	0		. 0	137	10	1	0	1	0	4	35
Maryland:		100	1	224	45	22	0	18	1	90	276
Baltimore Cumberland	5	139	ô	-0	4	3	ŏ	0	ô	3	19
Frederick	ő		Ö	i	o l	Ö	0	ŏ	0	0	
District of Colum-					"						1
bia:											***
Washington	9	143	9	28	35	18	0	16	1	13	206
Virginia:	0	+ 1	0	0	0	0	0	0	0	2	8
Lynchburg Richmond	ő		3	ő	6	5	ŏ	o l	0	0	45
Roanoke	2		0	17	2	3	0	1	0	0	15
West Virginia:									-		
Charleston	1	9	0	0	3	0	0	0	0	0	18
Wheeling	0	0	0	0	2	1	0	0			
North Carolina: Gastonia	0			0		0	0		0	0	
Raleigh	0		0	0	4	0	0	2	0	0	22
Wilmington	1		0	1	3 0	0	0	0	0	1	12
Winston-Salem.	0	1	0	0	0	3	0	0	0	0	13
Bouth Carolina: Charleston	1	225	2	0	0	0	0	0	0	0	21
Columbia		220	•								
Florence	0			0	1 2	0	0		0	0	. 9
Greenville	1		0	1	2	0	0	0	0	0	12
Georgia:		209	3	0	12	23	0	1	0	0	71
Atlanta Brunswick	3	1	il	ŏ	0	0	ŏ	ô	ő	0	71 7 30
Savannah	ĭ	31	1	0	0 2	1	0	2	0	2	30
Florida:			1. 1.55								
Miami	0		1	1	8	0	0	3	0	- 0	38
Tampa	4		1	0		-		*			-
Kentucky:	- 3						3.7			11-11	
Ashland	-										
Covington	0	34	0	1	8	5	0	1 2	0	0	84 27
Lexington	0	1	0			0		-			
Tennessee:					******						- 110
Knoxville	0	323	7	1	4	1	0	0	0	0	24
Memphis Nashville	1 1		5	0	12	3 4	0	4	1 0	3	115
Nashville	1		3	. 0	9	4	0	2	0	0	48
Alabama: Birmingham		87	2	0	9	1	0	8	0	11	57
Mobile	2	2	2 2	1 0	i	0 0	. 0	1	0	0	20
Montgomery	2 2 0			0		0	0		0	0	
	1 3						1.5		10		
Arkansas: Fort Smith				0		1	0		0	0	
Little Rock	1 0	21	0	2	7	ô	0	0	0	0	7
Louisiana:	-		-	1100	10	0.13	-	1.00	1000	mars St.	1 1 18
Lake Charles	. 0		0	0	1	0	0	0	0	1	
New Orleans									0		

City reports for week ended Jan. 23, 1937-Continued

Otata and altm	Diph-		luenza	Mea-	Pneu- monia	Scar- let	Small-	Tuber- culosis	paou	Whoop-	Deaths	
State and city	theria		Deaths	sles cases	deaths	fever	cases	deaths	FOTOP	cases	causes	
Oklahoma: Oklahoma City_ Tulsa	1 0	10	1	0 1	8 0	0 3	0	2	0	4 0	3	
Texas: Dallas Fort Worth	6	. 11	5 3	3 66	15 13	4 3	0	2 0	0	4 0	8	
Galveston Houston San Antonio	0 2 0		1 4	1 0 8	1 15 13	3 1 2 4	0 0	4 9	0 0 1	0 8 1	8 8	
Montana: Billings Great Falls	0	507/4	1 0	0	2 2	1	0	0	0	1 0	1	
Helena Missoula Idaho:	0	320 321	0	0	5	8 0	0	0	0	0 2	1	
Boise	0		1	0	2	0	0	0	0	0	1	
Colorado Springs Denver	1 1 0		1 0 3	3 0	9 37 2	11 7	0	1 8 0	0	0 38 0	9	
New Mexico: Albuquerque	0		0	0	5.34	. 5	0	4	0	5	1	
Utah: Salt Lake City. Nevada: Reno	1	70	3	15	3	22	0	0	0	4	8	
Washington: Seattle Spokane Tacoma	0 0	331 4	2 4 3	15 1 0	17 8 3	1 6 5	0	6 0	0	1 4 0	12 4 3	
Oregon: Portland Salem	0	597 50	11	3 0	21	5 0	0	8	0	4 3	13	
Califernia: Los Angeles Sacramento San Francisco	15 2 1	972 218 720	14 0 19	13 3 0	56 8 39	41 14 16	0 1 0	35 3 14	0	68 0 32	51 5 30	
	1	Meningococcus meningitis		Polio- mye-					Mening meni	ococcus ngitis	Polio- mve-	
State and city		Cases	Deaths	litis cases	\$0.	State	and city	-	Cases	Deaths	mye- litis cases	
Massachusetts: Boston		0	1	100		inia: Lyncht	oarg		1	1	i ng	
New York: Buffalo New York		1 12	0 9			h Caro Raleigh h Caro			0	1		
New York Pennsylvania: Philadelphia		1	0 2	. (Florenc	eille		0	1		
Pittsburgh Ohio: Cleveland		3	0	(Ark	Atlanta unsas:		*****	. 3	0		
Illinois: Chicago Springfield		3 1	3 1	- (Loui	Forth S siana: hrever			0	0		
Michigan: Detroit		2	1		Okla	homa:	ma City		1	0		
Missouri: Kansas City St. Louis		0	1 1	: :		Dallas. Falvest	on	******	1 1	1 0	. (
St. Louis North Dakota: Minot		1	0		1 5	hingtor Seattle. Spokan			1	0	are a	
Maryland: Baltimore District of Columbia	:	4	2		Calif	ornia:	geles		2	0		
Washington		4	0	0			200				24	

Dengue.—Cases: Charleston, S. C., 2.
Encephalitis, epidemic or iethargic.—Cases: Springfield, Mass., 1; New York, 2.
Pellagra.—Cases: Charleston, S. C., 1; Savannah, 1; Mobile, 3; Dallas, 1.
Typhus feer.—Cases: Charleston, S. C., 1; Atlanta, 1; Savannah, 2; Tampa, 1.

FOREIGN AND INSULAR

CUBA

Habana—Communicable diseases—4 weeks ended January 16, 1937.— During the 4 weeks ended January 16, 1937, certain communicable diseases were reported in Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Diphtheria	26 1 42 1 4	1 1	Scarlet fever Tuberculosis Typhoid fever	1 14 123	1

¹ Includes imported cases.

FINLAND

Communicable diseases—December 1936.—During the month of December 1936, cases of certain communicable diseases were reported in Finland as follows:

Disease	Cases	Disease	Cases
Diphtheria Dysentery Influenza Paratyphoid fevet Poliomyelitis	549 15 2, 686 16 15	Scarlet fever. Smallpox Typhoid fever. Undulant fever.	1, 321 1 42 1

PANAMA CANAL ZONE

Notifiable diseases—October, November, and December, 1936.—During the months of October, November, and December, 1936, certain notifiable diseases, including imported cases, were reported in the Panama Canal Zone and terminal cities as follows:

	Oct	tober	November		December	
Disease	Cases	Deaths	Cases	Deaths	Cases	Death
Chicken pox Diphtheria Dysentery (amoebic) Dysentery (bacillary) Leprosy Lethargic encephalitis Malaria Measles Meningococcus meningitis Mumps Pnoumonia Scarlet fever	3 13 14 13 1 1 67 53	7 1 2 1 24	7 23 2 4 1 1 69 68	6	2 25 15 18 59 127 2 50	3 1 4 1 25
Tuberculosis		31		23		2
Whooping cough	2		i	2	5	1

VIRGIN ISLANDS

Notifiable diseases—October-December 1936.—During the months of October, November, and December, 1936, cases of certain notifiable diseases were reported in the Virgin Islands as follows:

Disease	October	Novem- ber	Decem- ber	Disease	October	Novem- ber	Decem- ber
Diphtheria Filariasis Gonorrhea Hookworm disease Leprosy Malaria	1 6 8 9 2 2	1 10 2	3 1 1 62	Mumps. Pellagra. Schistocomiasis. Syphilis. Tuberculosis.	1 8 2	150 1 2	186

YUGOSLAVIA

Communicable diseases—December 1936.—During the month of December 1936, certain communicable diseases were reported in Yugoslavia as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax. Cerebrospinal meningitis Diphtheria and croup Dysentery Erysipelas Measles Paratyphoid fever	42 17 1, 014 21 335 518 5	6 9 105 2 11 3 1	Poliomyelitis. Scarlet fever. Sepsis. Tetanus. Typhoid fever. Typhus fever.	6 480 15 18 370 49	2 10 7 10 45 7

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

Note.—A table giving current information of the world prevalence of quarantinable diseases appeared in the Public Health Reports for January 29, 1937, pages 143-155. A similar cumulative table will appear in the Public Health Reports to be issued February 26, 1937, and thereafter, at least for the time being, in the issue published on the last Friday of each month.

Plague

Hawaii Territory—Island of Hawaii—Hamakua District—Paauhau sector.—One rat found on January 6, 1937, four rats found on January 25, and two other rats found on January 28, 1937, all in Paauhau sector, Hamakua District, Island of Hawaii, Hawaii Territory, have been found plague infected.

Smallpox

On vessel—American S. S. "Colorado Springs"—Manila.—One case of smallpox was found in a member of the crew of the American steamship Colorado Springs on arrival at Manila, P. I., February 1, 1937, from Shanghai via Nanking, China. All necessary measures were taken.

Typhus fever

Iraq—Baghdad.—During the week ended January 16, 1937, one case of typhus fever was reported at Baghdad, Iraq.

Yellow fever

Brazil—Matto Grosso State—Maracaju.—During the week ended January 2, 1937, two deaths from yellow fever were reported in Maracaju, Matto Grosso State, Brazil.

Gold Coast—Teshi.—One fatal case of yellow fever occurring on

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January 23, 1937, has been reported in Teshi, Gold Coast.

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